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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/620,694 | 07/17/2003 | Hsiao-Pen Shen | 2450-0522P | 9307 |

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| EXAMINER |
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SEFI, BEHROOZ M

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| ART UNIT | PAPER NUMBER |
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2621

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| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|

07/31/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

| | | | |
|------------------------------|--------------------------------------|--|--|
| Office Action Summary | Application No. 10/620,694 | Applicant(s) SHEN, HSIAO-PEN | |
| | Examiner Behrooz Senfi | Art Unit 2621 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's arguments filed 05/15/2007 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Araki (US 5,838,494) in view of Van Berkel et al. (US 6,064,424).

Regarding claim 1, Araki discloses, displaying multiple-view stereoscopic images i.e. fig. 3), including the following steps: providing a flat panel display having a vertical axis and a lenticular lens (please see; figs. 2A – 4, col. 3, lines 6 – 20), obtaining a set of multiple view images and sending the multiple-view images to the stereoscopic image synthesizer and, then informing the stereoscopic image synthesizer of a view number of the multiple-view images and a horizontal display resolution and a vertical display resolution of a screen by the stereoscopic image synthesizer after finishing step B (col. 1, lines 5 – 10, col. 2, lines 60 – col. 3, lines 5) and displaying stereoscopic images on the flat panel display with the lenticular lens (please see; col. 2, lines 30 – 39).

Araki is silent in specific of, lenticular lens slanted at an angle to the flat panel display.

Van Berkel in particular (i.e. fig. 2, col. 2, lines 22 – 30 and col. 8, lines 31 – 55) teaches the above subject matter.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to combine the teaching of Van Berkel and Araki by placing lenticular lens at an angle to the display, to provide an improved stereoscopic display apparatus, as suggested by Van Berkel (i.e. col. 2, lines 20 – 21).

Regarding claim 4, the combination of Araki and Van Berkel teaches, wherein a lenticular lens is vertically installed to the screen of the fiat panel display, while the lenticular lens is slanted at an angle of about 9.4623 degrees (Van Berkel, fig. 2, col. 8, lines 31 – 55).

4. Claims 2 – 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Araki '494 in view of Van Berkel '424 and further in view of Wood (US 6,295,070).

Regarding claim 2, the combination of Araki and Van Berkel teaches, displaying multiple-view stereoscopic images, as discussed with respect to claim 1 above.

Araki is silent to explicitly show one or more than one photographic device, such as digital camera, can be utilized to capture multiple-view images.

Wood in the same field (i.e. fig. 1, element 16) shows the video source/video camera for capturing multiple-view images.

In view of the above, it would have been obvious to one having ordinary skill in the art at the time of the invention was made to implement such teachings for capturing multiple-view images.

Regarding claim 3, combination of Araki and Wood teaches, R, G, B sub-pixels for synthesizing the stereoscopic images (Wood; fig 1, element 41).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Behrooz Senfi whose telephone number is 571-272-7339. The examiner can normally be reached on M-F 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



TUNG HO
PRIMARY EXAMINER

Behrooz Senfi
Examiner
Art Unit 2621